

# SC Series AC Servo Motor



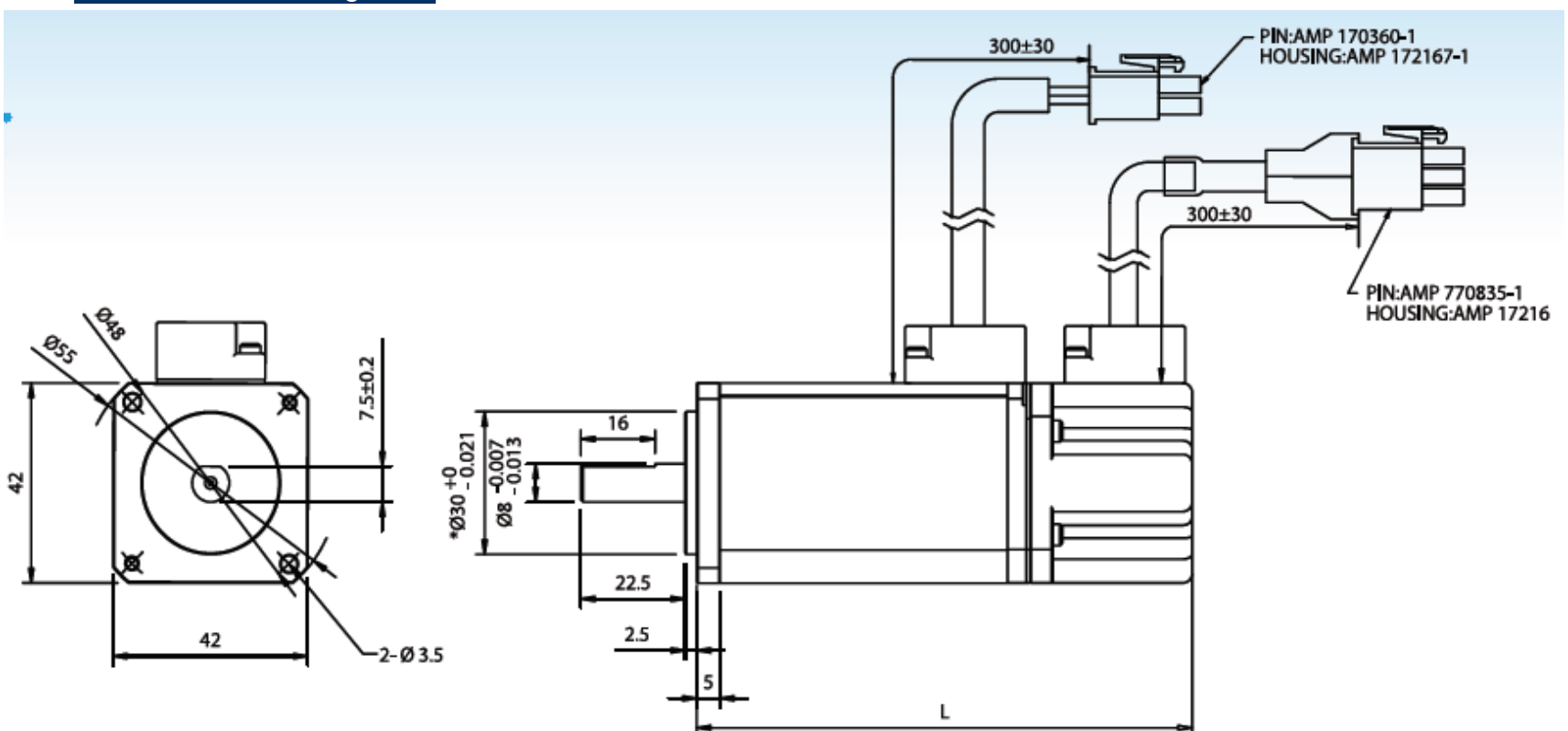
## Specifications

### SCSeries AC Servo Motor - Frame Size 42mm

Item	Motor Type	Unit	VA420530SC	VA421030SC
Rated Output		W	50	100
Amplifier Type			TSTA15C	TSTA15C
Rated terminal voltage		V	100	100
Rated Torque		N m	0.16	0.32
Rated Current		A	0.9	1.6
Rated Speed		rpm	3000	3000
Peak Torque		N m	4.8	9.6
Peak Current		A	2.7	4.8
Torque Constant		N m/A	0.178	0.2
Voltage Constant		V/K rpm	18.7	19.4
Inertia ( GD <sup>2</sup> /4)		Kg cm	0.029	0.036
Resistance		Ω	19.05	7.71
Inductance		mH	7.2	2.7
Mechanical Time Constant		ms	1.2	0.5
Electrical Time Constant		ms	0.4	0.35
Length		mm	85.8	106.8
Weight ( standard)		Kg	0.48	0.7
Speed Detector	Optics Encoder(INC: 2000P/R, ABS: 2048P/R)			
Time	Continuous			
Insulation class	F			
Insulation Voltage	AC 1500V at 1 minute			
Insulation resistance	DC 500V Above 10 MΩ			
Structure	Fully closed			
Shockproofness	Below 2.5G			
Altitude	Under 1000m			
Temperature Humidity	Temperature: 0~40, Humidity: Below 90%RH ( No Frosting)			
Temp. Humidity for storage	Temperature: -20 ~60, Humidity: Below 90%RH ( No Frosting)			
Color	N 1.5			
Fixing Mode	Flange			

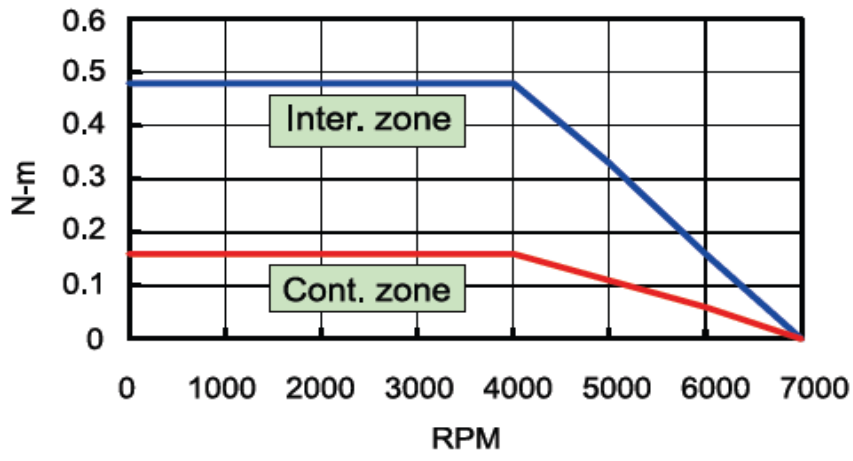


## Outline Drawing



Performance Curve

VA420530SC



VA421030SC

